

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: December 6, 2002, 23:35:56 : Search time 45.5 Seconds
(without alignments)
10278.727 Million cell updates/sec

Title: US-10-025-514-7
Perfect score: 1525
Sequence: 1 tctagaccatgtctggaag.....ccaaactcagaagttagtcgac 1525

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA.*

- 1: /cgn2_6/ptodata/1/1na/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/1/1na/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/1na/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/1na/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/1na/PCTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/1na/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	630.4	41.3	1308	3	US-09-023-173-10
2	630.4	41.3	1308	3	US-09-023-339-6
3	629.4	41.3	1185	3	US-09-023-339-3
4	629.4	41.3	1260	3	US-09-023-173-5
5	433.2	28.4	5932	4	US-09-299-141-4
6	433.2	28.4	6142	4	US-09-299-141-8
7	433.2	28.4	6565	4	US-09-299-141-1
8	433.2	28.4	6714	4	US-09-299-141-6
9	433.2	28.4	6924	4	US-09-299-141-9
10	433.2	28.4	6924	4	US-09-299-141-10
11	433.2	28.4	6924	4	US-09-299-141-11
12	433.2	28.4	6981	4	US-09-299-141-7
13	433.2	28.4	7054	4	US-09-299-141-3
14	433.2	28.4	7405	4	US-09-299-141-2
15	430.4	28.2	1185	3	US-09-023-339-2
16	408.8	26.8	1356	3	US-08-002-202-16
17	408.8	26.8	1356	3	US-08-481-534-16
18	407.2	26.7	1356	3	US-08-002-202-12
19	407.2	26.7	1356	3	US-08-481-534-12
20	404	26.5	1356	3	US-08-002-202-18
21	404	26.5	1356	3	US-08-481-534-18
22	313.2	20.5	1339	1	US-07-859-480-1
23	228.6	15.0	7492	4	US-09-299-141-5
24	219.2	14.4	1423	1	US-07-829-954-1
25	219.2	14.4	1423	1	US-07-994-423-1
26	219.2	14.4	1423	1	US-08-421-891-1
27	210.6	13.8	10627	1	US-08-060-925A-12

28	124.6	8.2	2466	4	US-09-271-608-7	Sequence 7, Appl
29	124.6	8.2	2466	4	US-09-695-950-7	Sequence 7, Appl
30	124.6	8.2	2466	4	US-09-696-147-7	Sequence 7, Appl
31	124.6	8.2	2466	4	US-09-696-164-7	Sequence 7, Appl
32	123.2	8.1	194	2	US-07-963-538B-5	Sequence 5, Appl
33	123	8.1	180	3	US-08-483-503A-2	Sequence 2, Appl
34	106.4	7.0	1508	3	US-08-660-347-1	Sequence 1, Appl
35	81.6	5.4	1179	4	US-08-745-995A-22	Sequence 23, Appl
36	81.6	5.4	1179	4	US-08-745-995A-23	Sequence 23, Appl
37	81.6	5.4	1191	4	US-08-745-995A-4	Sequence 4, Appl
38	81.6	5.4	1191	4	US-08-745-995A-5	Sequence 5, Appl
39	81.6	5.4	1191	4	US-08-745-995A-34	Sequence 34, Appl
40	81.6	5.4	1191	4	US-08-745-995A-35	Sequence 35, Appl
41	81.6	5.4	1197	4	US-08-745-995A-10	Sequence 10, Appl
42	81.6	5.4	1197	4	US-08-745-995A-11	Sequence 11, Appl
43	81.6	5.4	1260	4	US-08-745-995A-16	Sequence 16, Appl
44	81.6	5.4	1260	4	US-08-745-995A-17	Sequence 17, Appl
45	81.6	5.4	1358	4	US-08-745-995A-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-023-173-10
; Sequence 10, Application US/09023173
; Patent No. 6066781
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of Mature Proteins
; TITLE OF INVENTION: in Plants
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,173
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/038,168
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: P42995
; REFERENCE/DOCKET NUMBER: 0665-0007.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0860
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1308 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-023-173-10

Query Match 41.3%; Score 630.4; DB 3; Length 1308;
Best Local Similarity 70.8%; Pred. No. 1.3e-153;
Matches 838; Conservative 0; Mismatches 346; Indels 0; Gaps 0;
QY 335 GGAAGACCTCAAGGGGAGCGCGCTCAAAAACCGACACAGTCATCAGCAGCAAGACCA 394
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Qy	395	TCGCGACTTTTAATAAAATTAATCTCCAAATTTAGCCGAATTTGCTTTTCTTTGTATAGACA	454
Db	176	CCGACGTTTCAACAGATACCCCGAATTTGGCCGAATTCGCCTTCAGCGTGTACCGGCA	235
Qy	455	ATTAGCTCATCAAAAGTAATCTTACTAACAATTTTTTTTAGTCCCTGTGTTCTATTGCGCACTGC	514
Db	236	GCTCGGCGACCAAGTCCAACTCCACCAACATCTTCTCAGCCCGGTGAGCATCGCCACGCG	295
Qy	515	TTTTCGCCATGTTGAGTTTAGTTAGTTACTAAGCCGATACCCATGACGAGATTTTGAAGGTTT	574
Db	296	CTTTCGCCATGCTGTCTCCGTGGGTACCAAGCGGACACCCAGCAGAGATCCTCGAAGGCT	355
Qy	575	AAACTTTTAATTTGACGAAATCCCAAGAACCCAAATTCACGAGGGTTTTCAAGAGTTGTT	634
Db	356	GAACTTCAACCTGACGGAGATCCCGAGGCGCAGATCCAGAGGGCTTCACGAGCTGCT	415
Qy	635	GAGACTTTTGAATCAACCTGATTTCTCAATTCGAATTAACATACTGTTAAGCGTTTATTTT	694
Db	416	CAGGACGCTCAACACGCGGAGCTCCAGCTCCAGCTCACCACCGCAACGGGCTCTCCT	475
Qy	695	GTCTGAAGGTTTTAAATTTGGTTGACAAATTCCTAGAAGAGCTCAAGAACTATATCATAG	754
Db	476	GTCCGAGGCCCTCAAGCTCGTCGATAAGTTCTTGAGAGCTGAAGAAGCTTACCACCTC	535
Qy	755	TGAGGCTTTTACCGTTAATTTTGGTGATCTGAGGAGAGCTAAAAGCAAAATTAATGATTA	814
Db	536	CGAGGCGTTCACCGTCAAGCTTCGGGAGCACCGCAGGAGGCCAAGAGCAGATCAACGACTA	595
Qy	815	TGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAAATAGATCGTGATAC	874
Db	596	CGTCGAGAAGGGACCCAGGGCAAGATCGTGGACCTGCTCAAGGAATGGACAGGGACAC	655
Qy	875	CGTCTTCGCACTAGTTAACTATATTTTTTCAAGGGTAAGTGGGAACGCTCCTTTCAGGTT	934
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Qy	935	TAAAGATCTGAAGAGGAGATTTTCATGTTGATCAAGTTACTACTGTCAAAGTTTCCAAT	994
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Qy	995	GATGAAAGAGACTGGGTATGTTCAATATTAACATTTGCAAAAAATTAAGTTCTTGGGTCTT	1054
Db	776	GATGAAGAGGCTCGGCATGTTCAACATCCAGCACTGCAAGAAGCTCTCCAGCTGGGTGCT	835
Qy	1055	ATTAAATCAAGTATTAGGTAAGCTACTGCTATTTTTTTTTTCCAGACGAAGTAAAGCT	1114
Db	836	CCTCATGAAGTACTCTGGGAAGCCACCCGCCATCTTCTCTCGGACGAGGGCAAGCT	895
Qy	1115	TCACATTTTAGAAGTGTGACTCATGACATTAATTACTAAATTTTTTAGAGAACAGGA	1174
Db	896	CCAGCACCTGGAGAACGAGTGAAGCAGCAGACATCATCAGAAAGTTCTCTGGAGAACGAGA	955
Qy	1175	TCGTCGTAGCGCTCTCGACCTGCCAAGTTAAGTATCACCCGTACTTACGACTTAAA	1234
Db	956	CAGCGCTCCGCTAGCCTCCACCTCCGGAAGCTGAGCATCACCGCAGCTACGACCTGAA	1015
Qy	1235	ATCTGTTTTTAGGCGAGTTAGGTATTACCAAAAGTTTTTTTCTAACGCTGCCGATTTGAGTGG	1294
Db	1016	GAGCGTCTGGGCCAGCTGGGCATCAGAAAGTCTTCAGCAACGGCGCGACCTCTCCGG	1075
Qy	1295	TGTTACTGAAGAGCTCCATTAATAATTGAGTTAAGCTGTTCAAAAGCCGCTTAACTAT	1354
Db	1076	CGTGACGGAGGAGGCCCTGTAAGCTCTCCAAGGCCGTGCACAAAGCGGTGCTCAGAT	1135
Qy	1355	TGATGAAAGGGTACGAGGCGCCGGCGCTATGTTCTCTGGAAGCTATTTCGAATGAGCAT	1414
Db	1136	CGACGAGAAGGGACGAACTCCCGGGGCCATGTTCTCTGGAGGCCATCCCCATGTCAT	1195
Qy	1415	TCCACCAAGAGTTAAATTTAATAACCATTCGTTTTTCTGATGATCGAGACGACACTAA	1474
Db	1196	CCGCGCCGAGGTCAAGTTCAACAAAGCCCTTCGTTCTCTGATGATTCGAGACGACGAA	1255

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QY 1475 AAGCCCATGTTTATGGGTAAAGTTGTCAACCCCAACTCAGAAGT 1511
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Db 1256 GAGCCCCCTCTTCTTCATGGGAAAGTGCCTCAACCCCAACGAGAAGT 1299

RESULT 2
US-09-023-339-6
; Sequence 6, Application US/09023339
; Patent No. 6127145
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of \1-Antitrypsin
; TITLE OF INVENTION: in Plants
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: P. O. Box 60850
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,339
; FILING DATE: 13-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,991
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: P42,995
; REFERENCE/DOCKET NUMBER: 0665-0003.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1308 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: codon-optimized No. 6127145i/XhoI fragment e
; CLONE: signal peptide-AAT fusion protein
US-09-023-339-6

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	Query Match	41.3%	Score 630.4	DB 3	Length 1308
	Best Local Similarity	70.8%	Pred. No. 1.3e-153		
	Matches 838	Conservative	0	Mismatches 346	Indels 0
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DB	116	GGAGACCCCGAGGGGAGCGCGCCACAGAGCCGACACCAAGCCACGACCAAGACCA	175		
QY	395	TCCGACTTTTATAAAATTACTTCAAAATTTAGCCGAATTTGCTTTTCTTTGTATAGACA	454		
DB	176	CCGAGGTTTCAACAGATACCCCGAAATTTGGCCGAATTGCCCTTCAGCCTGTACCGCCA	235		
QY	455	ATTAGTCTCATCAAAAGTAATCTTACTAAGATTTTTTTTAGTCCTGTTTCTATTGCCACTGC	514		
DB	236	GCTCGCGCACAGTCCCAACTCCACCAACATCTCTTCAGCCGGTGAGCATGCCACCGC	295		
QY	515	TTTCGCCATGTTGAGTTTAGGTACTTAAGCCGATACCCTGACCAAGATTTTGAAGAGTTT	574		
DB	296	CTTCGGCATGCTGCTCCCTGGGTACCAAGCGGACACCCGACCCAGATCTCTGAAGGGCT	355		
QY	575	AAACTTTTAATTTGACCGAAATCCCAGAGCCCAAAATTCAGGAGGGTTTTCAAGATTGTT	634		

356 GAACCTTCAACCTGACGAGATCCCGGAGCGAGATCCAGAGGCTCCAGAGCTGCT 415
635 GAGAACTTTCAATCAACCTGATTTCTCAATTTGAATTAATCTAGTAAAGCTTTATTTT 694
416 CAGACCTCAACGACGCGGATCCAGCTCCAGCTCCAGCTCCAGCTCCAGCTCCCT 475
695 GTCTGAGGTTTAAATTTGGTTGACAAATTTCTAGAGAGCTCAAGAACTATATCATAG 754
476 GTCCGAGGGCTCAAGCTCGTATAGTTCTGAGGAGCTGAAGAAGCTCTACCACTC 535
755 TGAGGCTTTTACCGTTAAATTTGGTGATGACTGAGGAGCTAAAGCAAAATTAATGATTA 814
536 CGAGGCTTTACCGTTCACTTTCCGGGACACCGAGGCGCAAGAGCATCAAGCTA 595
815 TGTGTGAAGGACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 874
596 CGTCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 655
875 CGTCTCGGACCTAGTAACTATATTTTTCAGGAGTAAAGTGGGAGGAGGAGGAGGAG 934
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935 TAAAGATCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 994
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776 GATGAAGAGGCTGGCATGTTCAACATCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 835
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896 CCAGACCTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 955
1175 TCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1234
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1235 ATCTGTTTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1294
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1076 CGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1315
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1316 CGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1375
1415 TCACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1474
1196 CCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1255
1475 AGCCCATGTTTATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1518
1256 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1299

RESULT 3
US-09-023-339-3
; Sequence 3, Application US/09023339
; Patent No. 6127145
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of 1-Antitrypsin
; TITLE OF INVENTION: in Plants

NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: P.O. Box 60850
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,339
FILING DATE: 13-FEB-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/037,991
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42,995
REFERENCE/DOCKET NUMBER: 0665-0003.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0960
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1185 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: codon-optimized AAT coding sequence
US-09-023-339-3

Query Match 41.3%; Score 629.4; DB 3; Length 1185;
Best Local Similarity 70.8%; Pred. No. 2.2e-153;
Matches 837; Conservative 0; Mismatches 346; Indels 0; Gaps 0;

QY 336 GAAGACCTTCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 395
DB 1 GAGGACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 60
QY 396 CCGACTTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 455
DB 61 CCGAGCTTCAACAGATCAACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
QY 456 TTAGCTCATCAAAAGTAACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCA 515
DB 121 CTGCGGACGAGTCCAACTCCAACTCCAACTCCAACTCCAACTCCAACTCCAACTCCAACTCC 180
QY 516 TTGCGCATGTTAGTAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 575
DB 181 TTGCGCATGTTAGTAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 576 AACTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 635
DB 241 AACTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 300
QY 636 AGAATTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 695
DB 301 AGGAGCTCAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 696 TCTGAAGGTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 755
DB 361 TCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
QY 756 GAGGCTTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 815
DB 421 GAGGCTTTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAAT 480
QY 816 GTTGAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 875

Mon Dec 9 12:50:51 2002

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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: 60/038,168
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: P42995
; REFERENCE/DOCKET NUMBER: 0665-0007.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1260 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: codon-optimized Ramy3D signal-mature AAT
; US-09-023-173-5

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; Query Match 41.3%; Score 629.4; DB 3; Length 1260;
; Best Local Similarity 70.8%; Pred. No. 2.3e-153; Indels 0; Gaps 0;
; Matches 837; Conservative 0; Mismatches 346;

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; 336 GAAGACCTCAAGCGCGCGCTCAAAAAACCGACACCATCATCAGCAGGACCAT 395
; 76 GAGGACCCCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 135
; 396 CGGACCTTTTAAATAAATACTCCAAATTTAGCCGAAATTTGCTTTTCTTATAGACAA 455
; 136 CGGACCTTTTAAATAAATACTCCAAATTTAGCCGAAATTTGCTTTTCTTATAGACAA 455
; 456 TTAGCTCATCAAGTAATTTCTACTAATTTTCTTCTTCTTCTTCTTCTTCTTCTTCT 515
; 196 CTGCGGACCGACGTCACCACTCCACCACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 255
; 516 TTGCGGACCTTTTAAATAAATACTCCAAATTTAGCCGAAATTTGCTTTTCTTATAGACAA 575
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; 636 AGAATTTTAAATTTGACGAAATTTCCAGAAATTTCCAGAAATTTCCAGAAATTTCCAGAA 695
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; 936 AAGATATCTTCAAGAGGAGGATTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 995
; 676 AAGGACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 735
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; 736 ATGAAAGAGGCTGGGCAATGTTCAACATTTCAACATTTCAACATTTCAACATTTCAACATTT 795

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; RESULT 4
; US-09-023-173-5
; Sequence 5, Application US/09023173
; Patent No. 6066781
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of Mature Proteins
; TITLE OF INVENTION: in Plants
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,173
; FILING DATE: 13-FEB-1998

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QY 1056 TTAATGAAGTATTTAGTGAAGTCTACTGCTATTTTATTTTACAGACGAAGGTAAGCTT 1115
D 1115
Db 796 CTCATGAGTACTGGGGAACGCCACCGCCATCTTCTTCCGCGGAGAGGGAAGCTC 855
QY 1116 CAACATTTAGAGAAATGAGTTGACTCATGACATTTATTAATTTTATAGAAACGAGGAT 1175
D 1175
Db 856 CAGCAGCTGGAGAACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 915
QY 1176 CGTGTGAGGCTTCTGTCAGCTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1235
D 1235
Db 916 AGCGGCTCGCTAGCTTCCATCTCCGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 975
QY 1236 TCTGTTTATAGGCGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1295
D 1295
Db 976 AGCGGCTCGCTAGCTTCCATCTCCGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1035
QY 1296 GTTACTGAAGAGCTTCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1355
D 1355
Db 1036 GTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1095
QY 1356 GATGAAGAGGTAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1415
D 1415
Db 1096 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1155
QY 1416 CCACGAGAGTGAATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1475
D 1475
Db 1156 CGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1215
QY 1476 AGCCCATTTTATGAGGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1518
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Db 1216 AGCCCATTTTATGAGGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1258

RESULT 5

US-09-299-141-4
; Sequence 4, Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, SIHONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; EARLIER FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: 60/083,025
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 5932
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:p43C-AT
US-09-299-141-4

Query Match 28.4%; Score 433.2; DB 4; Length 5932;
Best Local Similarity 59.7%; Pred. No. 1.7e-102;
Matches 729; Conservative 0; Mismatches 493; Indels 0; Gaps 0;

QY 298 TGTGTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 357
D 357
Db 1347 TGGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1406
QY 358 CTCAAAAACCGACACAGTCTATCAGACCAAGACCATCCGACTTTTAAATAAATTACTC 417
D 417
Db 1407 CCAGAGACAGATATATCCACCATGATCAGGATCAACCAACCTTCAACAAGATCAACC 1466
QY 418 CAATTTAGCCGAATTTGCTTTTCTTTGATAGACAATTTAGCTCATCAAAAGTAATTTCTA 477
D 477
Db 1467 CCAACCTGTGAGTTCGCTTTCAGCTATACCGCCAGCTGGCACACCAAGTCCACACAGCA 1526

QY 478 CTAAACATTTTTTTAGTCTGCTGCTTCTATTTGCCACTGCTTTTCCGCATGTTGAGTTAGGTA 537
D 537
Db 1527 CCATATCTTTCTTCCCCAGTGAGCATCGCTACAGCCTTTTGCATATGCTCTCCCTGGGGA 1586
QY 538 CTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTAAACTTTTAAATTTGACCCAAATCC 597
D 597
Db 1587 CCAAGGCTGACACTCAGCATGAATCTTGGAGGCTGAATTTCACTCAGGAGATTC 1646
QY 598 CAGAGCCCAATTTACAGAGGTTTCAAGAGTTTGTGAGAACTTTGAATCAACCTGATT 657
D 657
Db 1647 CGAGGCTCAGATCATGAAGCTTTCCAGAACTCTCCGTAACCTCAACAGCAGCAGCA 1706
QY 658 CTCAATTTGCAATTAATTAATTTTGTCTGAAAGTTTAAATTTGTTG 717
D 717
Db 1707 GCCAGTCCAGCTGACACCGCATGCTTCTCAGGAGGCTTGAAGTAGTGG 1766
QY 718 ACAATTTCTAGAGACGCTCAAGAACTTATCATAGTGAAGCTTTTACGTTTAAATTTG 777
D 777
Db 1767 ATAAGTTTTTGGAGGATTTAAAAAGTTGTACCACTCAGAAGCTTCTCAGTCAACTTCG 1826
QY 778 GTGATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 837
D 837
Db 1827 GGGACACCAAGAGCCCAAGAAACAGATCAACGATTTAGCTGGAGAGGCTTCAAGGGA 1886
QY 838 AGATCGTTGACTAGTTAAAGAAATTAGATCGTATACCGTCTTCGCACACTAGTTAACTATA 897
D 897
Db 1887 AAATTTGTGATTTGGTCAAGGAGCTTGACAGAGACACAGTTTTTCTCTGCTGCTGAATTA 1946
QY 898 TTTTTCAGGGTAAGTGGGAAGCTCTTTCGAGTTTAAAGATACCTGAAGAGGAAGATT 957
D 957
Db 1947 TCTTCTTTAAAGGCAATGGGAGAGACCTTTGAAGTCAAGGACACCGAGGAGAGGACT 2006
QY 958 TTCATGTTGATCAAGTTACTACTGCTCAAGCTTCCATGATGAAGTGAAGAACTGGGTATCTCA 1017
D 1017
Db 2007 TCCAGTGGAGGAGTACCCAGCTGAGGAGGCTTATGATGAAGCTTTTGAAGCATTTTA 2066
QY 1018 ATATCAACATTTGCAAAAAATTAAGTTCTTGGGTCTTATTAATGAAGTATTTAGTGAAGC 1077
D 1077
Db 2067 ACATCCAGCACTGTGAAGAGCTGCCAGCTGGGTGCTGCTGATGAATACCTGGGCAATG 2126
QY 1078 CTACTGCTATTTTTCACAGAGAGGTAAGCTTCAACATTTAGAAATTTAGAAATTTAGTGA 1137
D 1137
Db 2127 CCACGCGATCTTCTCCTGCTGATGAGGAGAACTACAGCACTTGAAGTGAAGTGAAGTGA 2186
QY 1138 CTCATGACATTTACTTAAATTTTATGAGAACGAGGATCGTGTAGCGCTTCTCTGCACT 1197
D 1197
Db 2187 CCCAGCATATCATCACCAAGTTCTTGAAGAAATGAAGAGAGGCTTGCAGCTTACATT 2246
QY 1198 TGCCAAAGTTAAGTATCACCGGCTTACAGCTTAAATTTCTGTTTTCAGGCTTGAAGTGA 1257
D 1257
Db 2247 TACCAAACTGTCCATTTACTGGAACCTATGATCTGAAGAGCTTCTGGGTCACTGAGCA 2306
QY 1258 TTACCAAGTTTTCCTAACGGTGCAGATTGAGTGGTGTACTGAAGAGCTTCACTTAA 1317
D 1317
Db 2307 TCACTAGGCTTTCAGCAATGGGCTGACCTTCCGGGTTCACAGAGGAGGAGGAGGAGGAG 2366
QY 1318 AATTGAGTAAAGCTTTCACAAAGCGCTTAACTATTGATGAAGAGGCTTACAGGAGGAG 1377
D 1377
Db 2367 AGCTCTCCAGGCGGTGATAGGCTTGTCTGACCATCGACGAGAAAGGAGGAGGAGGAGGAG 2426
QY 1378 CCGGCGCTATGTTTTCGGAAGCTATTCATGAGCTTCCAGTGAAGTTCACAGCAAGTAAATTA 1437
D 1437
Db 2427 CTGGGCGCTATGTTTTCGGAAGCTATTCATGAGCTTCCAGTGAAGTTCACAGCAAGTAAATTA 2486
QY 1438 AACCATTTCTGCTGATGATCGAGCAGAACACTTAAAGGAGGAGGAGGAGGAGGAGGAGGAG 1497
D 1497
Db 2487 AACCTTTTCTGCTTCTTAAATGATGAAGAAATACCAAGTCTCCCTCTTCTCATGGGAAAG 2546
QY 1498 TTGTCAACCAACTCAGAAAGTA 1519
D 1519
Db 2547 TGTGTAATCCCAACCAAAATA 2568

Db 2157 TCTTCTTTAAAGCAATGGGAGAGACCCCTTTGAAGCTAAGGACACCCAGGAGGAGGACT 2216
 Qy 958 TTCATGTTGATCAAGTTACTACTGTCAAAAGTTCCTCAATGATGAAAGACTGGGTATGTTCA 1017
 Db 2217 TCCAGTGGACAGGTGACCCAGCTGAAGTGCCTATGATGAAGCGTTTAGGCATGTTTA 2276
 Qy 1018 ATATTCAACATTTGCAAAAAATTAAGTTCCTTGGGTCTTATTAATGAAGTATTTAGGTAAGC 1077
 Db 2277 ACATCCAGCACTGTGAAGAAGCTGTCCAGCTGGGTGCTGATGAAATACCTGGGCAATG 2336
 Qy 1078 CTACTGCTATTTTCTTACCAGACGAAGTAAAGTTCACCATTTTAGAGAACTGAGTTGA 1137
 Db 2337 CCACGGCATCTTCTCTGCTGATGAGGGAACTACAGCACTGGAAATGAAGTCA 2396
 Qy 1138 CTCATGACATTAATTAATAATTTTAGAGAAACGAGGATGCTGTAGGGCTTCTCTGCACC 1197
 Db 2397 CCCAGGATATCATCCCAAGTTCCTGGAAATGAAGACAGAAGGTCTGCCAGCTTACATT 2456
 Qy 1198 TGCCAAAGTTAAGTATCACCGGTACTTACGACTTAAATCTGTTTGGGCACTTGGTA 1257
 Db 2457 TACCCAAACTGTCCATTACTGGAACCTATGATCTGAAGAGCGTCTGGGTCAACTGGCA 2516
 Qy 1258 TTACCAAAAGTTTTTCTAAACGTCGCGATTTGAGTGTGTTTACTGAAAGAGCTCCATTAA 1317
 Db 2517 TCACATGAGTCTTCAGCAATGGGCTGACCTCTCCGGGTCACAGAGAGGACCCCTGA 2576
 Qy 1318 AATTGAGTAAAGCTGTTTCAAAAGCGCTTAACTATTTAGTAAAGAGGTTACCGAGCGC 1377
 Db 2577 AGCTCTCAAGCGCTGATCAAGGCTGTGCTGACCATCGAGAGGAGGAGGACTGAAGCTG 2636
 Qy 1378 CCGGGCTATGTCCTGGAAGCTATTCCAATGAGCTATCCACAGAAAGTTAAATTTAATA 1437
 Db 2637 CTGGGGCCATGTTTCTAGAGGCAATACCCATGTCTATCCCCCGGAGTCAAGTCAACA 2696
 Qy 1438 AACCAATTCCTTTTCTGATGATCGAGCAGAACTAAAGGCCCATTTGTTATGGGTAAGG 1497
 Db 2697 AACCTTCTCTTCTTAATGATTGAACAAATACCAAGTCTCCCTCTCTTCTATGGGAAAG 2756
 Qy 1498 TTGTCACCAACTCAGAGTA 1519
 Db 2757 TGGTGAATCCCAACCAAAATA 2778

RESULT 7

US-09-299-141-1
 ; Sequence 1, Application US/09299141
 ; Patent No. 6461606
 ; GENERAL INFORMATION:
 ; APPLICANT: FLOTTE, TERENCE R.
 ; APPLICANT: SONG, SIHONG
 ; APPLICANT: BYRNE, BARRY J.
 ; APPLICANT: MORGAN, MICHAEL
 ; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
 ; FILE REFERENCE: 4300.011800
 ; CURRENT APPLICATION NUMBER: US/09/299,141
 ; CURRENT FILING DATE: 1999-04-23
 ; EARLIER APPLICATION NUMBER: 60/083,025
 ; EARLIER FILING DATE: 1998-04-24
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1
 ; LENGTH: 6565
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: PLASMID C-AT
 US-09-299-141-1

Query Match 28.4%; Score 433.2; DB 4; Length 6565;
 Best Local Similarity 59.7%; Pred. No. 1.7e-102;
 Matches 729; Conservative 0; Mismatches 493; Indels 0; Gaps 0;
 Qy 298 TGTGTGTAAGTCTCTGTGTTTCCCAAGTCAAGGCCATGGAAGACCCCTCAAGGCGAGCGCG 357

RESULT 6
 US-09-299-141-8
 ; Sequence 8, Application US/09299141
 ; Patent No. 6461606
 ; GENERAL INFORMATION:
 ; APPLICANT: FLOTTE, TERENCE R.
 ; APPLICANT: SONG, SIHONG
 ; APPLICANT: BYRNE, BARRY J.
 ; APPLICANT: MORGAN, MICHAEL
 ; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
 ; FILE REFERENCE: 4300.011800
 ; CURRENT APPLICATION NUMBER: US/09/299,141
 ; CURRENT FILING DATE: 1999-04-23
 ; EARLIER APPLICATION NUMBER: 60/083,025
 ; EARLIER FILING DATE: 1998-04-24
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 6142
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: PLASMID
 ; OTHER INFORMATION: p43msENC-AT
 US-09-299-141-8

Query Match 28.4%; Score 433.2; DB 4; Length 6142;
 Best Local Similarity 59.7%; Pred. No. 1.7e-102;
 Matches 729; Conservative 0; Mismatches 493; Indels 0; Gaps 0;

Qy 298 TGTGTGTAAGTCTCTGTGTTTCCCAAGTCAAGGCCATGGAAGACCCCTCAAGGCGAGCGCG 357
 Db 1557 TGGCAGGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1616
 Qy 358 CTCAAAAAACCGACACAGCATCATCAGCAAGACCATCCGACTTTTAAATTAATTAATTAATTA 417
 Db 1617 CCAGAGACAGATACATCCACCATGATCAGGATCAACCAACCTTCAACAGATCAACC 1676
 Qy 418 CAATTTAGCGAATTTGCTTTTCTTTCTGATAGCAATTAAGTCTATCAAAAGTAACTTA 477
 Db 1677 CCAACCTGGGTGAGTTCGGCTTCAAGCTATACCGCTATACCGCTGATGAGGAGGAGATTC 1736
 Qy 478 CTACATTTTTTTTACTGCTGTTTCTATGCGCACTGCTTTCCGCCATGTTGAGTATTAGTA 537
 Db 1737 CCAATATCTTCTTCCCAAGTACGATCGCTACAGCTTTTCAATGCTCTCCCTGGGA 1796
 Qy 538 CTAAGCGCATACCCATGACGAGATTTAGAAGGTTTAACTTTAACTTTAACTTTAACTTTAACT 597
 Db 1797 CCAAGGTGACATCAGATGAAATCCTGGAGGCTGAAATTTCAACCTCAGCGAGATTC 1856
 Qy 598 CAGAGCCCAATTCAGGAGGTTTCAAGAGTTGTTGAGAACTTTGAACTCAACCTGATT 657
 Db 1857 CGGAGGCTCAGATCCATGAAGGCTTCCAGAACTCTCCGTACCTCAACAGCAGACA 1916
 Qy 658 CTCAATTTGCAATTAATTAATTAATTAATTAATTTGCTGAAAGTTTAAATTTAAATTTGTTG 717
 Db 1917 GCGAGCTCAGCTCAGCAGCGCAATGGCTGTTCTCAGCAGGAGGCTTGAAGCTAGTGG 1976
 Qy 718 ACAATTTCTAGAGAGCTCAGAAACTATATCATAGTCTGAGGCTTTTACCGTTAAATTTG 777
 Db 1977 ATAAGTTTGGAGGATGTTTAAAGTTGTACCCTCAGAGGCTTCTCATCTGCACTTCG 2036
 Qy 778 GTGATCTAGGAGGCTTAAAGCAATTAATGATTATGTTGAGAAAGCCACCGAGGTA 837
 Db 2037 GGGACACGAGAGGCGCAAGACAGATCAACGATTACGTGAGAGGCTTCAAGGGA 2096
 Qy 838 AGATCGTTGACCTAGTTAAAGAAATAGATCGTATACCGTCTTCGCACTAGTTAATTA 897
 Db 2097 AAATTTGATTTGTTCAAGGAGCTTCAAGAGACACAGTTTGTCTGGTGAATTA 2156
 Qy 898 TTTTTCAGGGTAAGTGGGAAGCTCTTTTCGAGGTTTAAAGATCTGAGAGGAGAAAT 957


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QY 478 CTAACTTTTCTTTAGTCTGTTCTTCTATGTCACCTGCTTTCCGCAATGTTGAGTTAGGTA 537
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Db 307 CCAATATCTTCTCTCCCACTGAGCATGCGTACAGCCCTTTGCAATGCTCTCCCTGGGGA 366
QY 538 CTAAGCCGATACCCATGACGAGATTTTAGAAGGTTTAAACTTTTAAATTTGACCGAAATCC 597
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Db 367 CCAAGGCTGACACTCAGATGAAATCTCTGGAGGCTGAAATTCACCTCAGGAGATTC 426
QY 598 CAGAAGCCCAAAATTCACGAGGCTTTTCAAGAGTTCTTGAGAACTTTGAATCAACCTGATT 657
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Db 427 CGGAGCTCAGATCCATGAAGCTTCCAGGAATCTCTCCGTAACCTCAACAGCCAGACA 486
QY 658 CTCATTTGCAATTAATCTACTGTGAAGCTTTATTTTCTGCTGAAGTTTAAATTTGTTG 717
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Db 487 GCCAGCTCCAGCTGACCCAGCCATGCTCTGCTCAGCAGGCTGGAAGTATGTTG 546
QY 718 ACAATTTCTAGAAGCTCAAGAACTATATCATAGTAGGCTTTTACCGTTAAATTTTG 777
  |||||
Db 547 ATAAGCTTTTGGAGGATGTTAAAGTTGTACCACTCAGAAAGCTTCTACTGTCAACTTCG 606
QY 778 GTGATACTGAGGAAGCTAAAGCAATTAATGATTTATGTTGAGAAAGCACCAGGGTA 837
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Db 607 GGGACACGAGAGGCCAAGAAACAGATCAACGATACGTGGAGAGGGGTACTCAAGGGA 666
QY 838 AGATCGTTGACCTAGTTTAAAGAAATTAGATCGTATACCGCTCTCGCACTAGTTAACTATA 897
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Db 667 AAATTTGTGATTTGTGTCAGGAGCTTGACAGACACAGTTTGTCTGCTGTAATATACA 726
QY 898 TTTTCTTTCAAGGTAAGTGGGAAGCTCTCTTTCAGGTTTAAAGTACTGGAAGAGGAT 957
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Db 727 TCTCTTTTAAAGGCAATTTGGAGAGACCCCTTTGAAGTCAAGGACACCCAGGAGAGGACT 786
QY 958 TTTATGTTTGATCAAGTTACTACTGTCAAGTTTCCAAAGTTCCAAATGATGAAGAACTGGGTATGTTCA 1017
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Db 787 TCCAGCTGGACAGGTTGACCTGAGGTTGAGGCTCTATGATGAAGCGTTTGGCATGTTTA 846
QY 1018 ATATTCAACATTTGCAAAATTAAGTTCTTTGGTCTTTTAAATGAAGTATTTAGTTAAGC 1077
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Db 847 ACATCCAGCACTGTAAGAAGCTGCCAGCTGGGTGCTGCTGATGAATACCTCGGCAATG 906
QY 1078 TACTGCTATTTTCTTACCAGCAAGGATGATGCTTCAACATTTAGAGAATGATGTA 1137
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Db 907 CCACGCCATCTCTCTGCTGCTGATGAGGGGAACTACAGCACCTCGGAAATGAATCA 966
QY 1138 CTCATGACATTTACTAAATTTTATAGAAAGGATGCTGCTGAGGCTTCTCTGACCC 1197
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Db 967 CCCAGATATCATCAACCAAGTTCTTGAAATGAAGACAGAAAGTCTGCCAGCTTACAT 1026
QY 1198 TGCCAAAGTTAAGTATCACCGGTTACTTACGACTTAAATCTGTTTATGAGCCAGTTAGGTA 1257
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Db 1027 TACCCAACTGTCCATTTACTGGAACCTTATGATCTGAAGAGCGTCTGGGTCAACTGGGA 1086
QY 1258 TTACCAAGTTTCTTAAAGGTCGCGATTTGAGTGGTGTACTGAAGAGCTCCATTA 1317
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Db 1087 TCACTAAGTCTTCAGCAATTTGGGGTGACCTCTCCGGGGTCAAGAGAGGACCCCTGA 1146
QY 1318 AATTGAGTAAAGCTGTTTCAAAAAGCGCTCTTAACTATTGATGAAGAGGTACCGAGCGC 1377
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Db 1147 AGCTCTCAAGGCGTGCATTAAGCTGTGCTGACCATCAGCAGAAAGGAGTGAAGCTG 1206
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Db 1207 CTGGGCGCATGTTTATAGAGGCAATACCCATGTCTATCCCCCGGAGGTCAAGTTCAACA 1266
QY 1438 AACCATTCGTTTCTGATGATCGACGACAACTAAAGCCCATTTGTTATGGGTAGG 1497
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Db 1267 AACCTTTGTCTTCTTAAGTATGAACAAATACCAAGTCTCCCTCTTCTATGGGAAAG 1326
QY 1498 TTGTCACCAACCTCAGAACTA 1519
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Db 1327 TGGTGAATCCACCCAAAATA 1348
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RESULT 13
US-09-299-141-3
; Sequence 3, Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, SIHONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; CURRENT FILING DATE: 1999-04-23
; EARLIER APPLICATION NUMBER: 60/083,025
; EARLIER FILING DATE: 1998-04-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 7054
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PLASMID de-AT
US-09-299-141-3
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Query Match 28.4%; Score 433.2; DB 4; Length 7054;
Best Local Similarity 59.7%; Pred. No. 1.8e-102;
Matches 729; Conservative 0; Mismatches 493; Indels 0; Gaps 0;
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QY 298 TGTGTGGTAACTCTCTGTGTTTCCCACTCAAGGCCATGGAAGACCCCTCAAGGGCAGCGCCG 357
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Db 1395 TGGCAGGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1454
QY 358 CTCAAAAAACCGACACCACTCATCACGACCAAGACCATCCGACTTTTAAATAAATTAATCTC 417
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Db 1455 CCCAGAGACAGATACATCCACCATGTGATGATCAACCACTTCAACAGATCACCC 1514
QY 418 CAATTTAGCCGAATTTGCTTTTCTTTTATAGCAATTTAGCTCATCAAGTAATTTCTA 477
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Db 1515 CCAACCTGGCTGAGTTGCTGCTTACGCTATACCGCAGCTGGCACACCACTCCACAGCA 1574
QY 478 CTAACATTTTCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 537
  |||||
Db 1575 CCAATATCTTCTCTCCCACTGAGCATCGCTACAGCCCTTGAATGCTCTCCCTGGGA 1634
QY 538 CTAAGCCGATACCCATGACGAGATTTTGAAGGTTTAAACTTTTAAATTTGACCGAAATCC 597
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Db 1635 CCAAGGCTGACACTCAGATGAATCTTGAGGCGCTGAATTTCAACCTCAGCGAGATT 1694
QY 598 CAGAAGCCCAAAATTCAGAGGGTTTCAAGAGTTTGTGAGAACTTTGAATCAACCTGATT 657
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Db 1695 CGGAGGCTCAGATCCATGAAGGCTTCCAGAACTCTCCGTACCTCAACCCAGCCAGACA 1754
QY 658 CTCATTTGCAATTAATCTACTGTTTAAAGGTTTAACTTTTCTGCTGAGGTTTAAATTTGTTG 717
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Db 1755 GCCAGCTCAGCTGACCCAGCCGCAATTTGCTGCTGAGCGGCTTGAAGCTAGTGG 1814
QY 718 ACAATTTCTTAGAAGAGCTCAAGAACTATATCATAGTGAAGCTTTTACCGTTAAATTTG 777
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Db 1815 ATAAGTTTTTGGAGGATGTTAAAGAGTTGTACCACTCAGAAAGCTTCTACTGTCAACTTCG 1874
QY 778 GTGATCTAGGAGGCTAAAGCAATTAATGATTTATGTTGAGAAAGCCACCCAGGGTA 837
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Db 1875 GGGACACCCGAAGAGGCCAAGAAACAGATCAACGATTTACGTGGAGAAAGGTACTCAAGGGA 1934
QY 838 AGATCGTTGACCTAGTTTAAAGAAATTAGATCGTATACCGCTTCTCCGACTAGTTAACTATA 897
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Db 1935 AAATTTGGGATTTGGTCAAGGAGCTTTGACAGAGACACAGTTTCTCTGCTGTAATTA 1994
QY 898 TTTTCTTCAAGGGTAAAGTGGGAAGCTCTCTTCCGAGTTTAAAGATTAAGTGAAGAGGAGGAT 957
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Db 1995 TCTTCTTTAAAGCAATGGGAGAGACCCCTTTGAAGTCAAGGACACCCAGGAGGAGGACT 2054
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